

## REMOVAL OF SULFUR COMPOUND AND DESULFURING AGENT FOR USE THEREFOR

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### Abstract

PURPOSE: To permit an efficient capture and removal of sulfur compounds at low temperatures by bringing a gaseous or liquid substance containing sulfur compounds maintained at a temperature of not more than 100 deg.C into the desulfuring agent admixed with manganese dioxide, etc. for sulfur capturing and for the subsequent heat treatment in a specific condition.

CONSTITUTION: A desulfuring agent is prepared by using manganese dioxide alone or by adding a metal salt selected from copper, cobalt, iron, silver, lanthanum and cerium to the manganese dioxide, the main constituent of such preparation. A gaseous or liquid substance containing sulfur compounds maintained at a temperature of not higher than 100 deg.C is brought into contact with the aforesaid desulfuring agent for sulfur capturing and thereafter heat treated for not less than 10 minutes at a temperature of 50-400 deg.C, thereby recovering the contacting and capturing performances of the desulfuring agent. Preferably, this desulfuring process of contacting, capturing and heating is repeated.

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